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10/524,777	02/16/2005	Toshifumi Yoshikawa	056205.55944US	8697
23911 7590 12/28/2006 CROWELL & MORING LLP			EXAMINER	
INTELLECTUAL PROPERTY GROUP			CAVALLARI, DANIEL J	
P.O. BOX 14300 WASHINGTON, DC 20044-4300			ART UNIT	PAPER NUMBER
			2836	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)	
	10/524,777	YOSHIKAWA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Daniel J. Cavallari	2836	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was precised to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on <u>04 Octoors</u> 2a)⊠ This action is FINAL . 2b)□ This 3)□ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Disposition of Claims	•		
 4) Claim(s) 6,8 and 16-26 is/are pending in the ap 4a) Of the above claim(s) 19-26 is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 6,8,16 and 17 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	n from consideration.		
Application Papers		,	
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 04 October 2006 is/are: Applicant may not request that any objection to the confidence of Replacement drawing sheet(s) including the correction of the original transfer of the confidence of the con	a) \square accepted or b) \square objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite	

DETAILED ACTION

The examiner acknowledges a submission of the amendment filed on 10/4/2006. The amendments to claims 6 & 8, cancellation of claims 1-5, 7, 9-15 and new claims 16-26 are accepted.

Election/Restrictions

Newly submitted claims 18-26 are directed to an invention that is independent or distinct from the invention originally claimed for the reasons stated below.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 18-26 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

Group I, claim(s) 6, 8, 16, & 17, drawn to a system and method of switching from a primary source to a backup source.

Group II, claim(s) 18-26, drawn to a power supply system using an interruption database for coordinating the power supply configuration.

The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the special technical feature of the Group I invention is the specific claimed switching arrangement of the first and second switches claimed therein which is not present in Group II. The special technical feature of the Group II invention is the database which is not present in Group I.

Response to Arguments

The previously made objections to the drawings have been withdrawn in view of the amendments.

The previously made 112 second paragraph rejection of claim 8 has been withdrawn in view of the amendments.

Applicant's arguments with respect to claims 8 have been considered but are moot in view of the new ground(s) of rejection.

Claim Objections

Claims 8 and 17 are objected to because of the following informalities:

In regard to Claim 8

• The sentence "...starting supplying power from..." is grammatically incorrect and will be interrupted as best understood to mean "...starting to supply power..."

In regard to Claim 17

• The sentence "...wherein the adjusting of the power consumption is adjusting of the load amounts of loads based on a rated capacity of each load and a present load amount of each load" is grammatically incorrect, unclear, and confusing and should be rewritten to clearly and concisely point out that which is being claimed. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 6, 8, 16, & 17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In regard to Claims 6 & 8

• It is unclear what is meant by the statement "... in the case where service interruption information is provided in advance..." Specifically, it is unclear what is meant by "service interruption information" as the term is not one normally used in the art. It is unclear exactly what constitutes "service interruption information". The claim will be examined as best understood to mean "the time at which a service interruption is going to take place".

In regard to Claims 6, 8, & 16

• It is unclear what is meant by the phrase "balance-controlling so that the power consumption and the power generation amount get close to each other" the terms "balancing-controlling" and "get close to each other" do not specifically state that which is being balanced and that which is getting close to each other. The claim will be examined as best understood in which the phrase is taken to mean "adjusting either the load or the distributed power source in order to get the amount power required by the load closer to the amount of power supplied by the distributed power source"

In regard to Claims 16 & 17

It is unclear what is meant by "...based on a rated capacity of each load". In
particular, it is unclear what the term "capacity" is referencing. A power supply
has a particular supply capacity but the applicant fails to provide the particular

property of the load in which the "capacity" is being referenced making the claim unclear. The claim will be examined as best understood in which the phrase is interpreted to mean "... based on the power consumption of a load..."

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 6, 8, 16, & 17 are rejected under 35 U.S.C. 102(e) as being anticipated by Kern et al. (US 2002/0190576 A1).

Kern et al. (hereinafter referred to as Kern) teaches:

In regard to Claim 6

A power supply system comprising:

A first switch (61) (See Figure 3) for normally connecting a plurality of loads (74)

[The examiner notes that Kern teaches load shedding and disconnecting portions of the load via circuit breakers thereby teaching a plurality of loads (See Paragraph 66)] with a power supply system at normal times and disconnecting them upon interruption of electrical service, the loads being normally supplied

with power from the power system (Utility) at the normal times and supplied with power from a distributed power source (generator 20a) upon the interruption of the electrical service from the power system (See Figure 3 & Paragraphs 62-63).

- A second switch (44a) for connecting the loads with the distributed power source (20a) upon the interruption of the electrical service (See Figure 3 & Paragraphs 62-63).
- A first control unit (14) for adjusting the power consumption of the plurality of loads (See Paragraph 66).
- A second control unit (16) (See Paragraph 43) for adjusting the power generation amount of the distributed power source (20a).
- A command device (60) (See Paragraphs 49-50) for issuing a command signal to at least one of said first control unit for adjusting the power consumption and said second control unit for adjusting the power consumption, before the interruption of the electrical service begins in the case where service interruption information is provided in advance [The examiner notes that the teaching of Kern are being used in the case where service interruption information is NOT known in advance] and issuing a command signal for turning on said second switch (44a) and then issuing a command signal for turning off said first switch (61) and issuing a command signal to at least one of said first control unit and said second control unit for adjusting either the load or the distributed power source in order to get the amount power required by the load closer to the amount of power supplied by the distributed power source (See Paragraph 66).

In regard to Claim 8

A method for supplying power upon interruption of electric service, the method comprising:

- A first step of adjusting at least one of the power consumption of a plurality of loads and the power generation amount of a distributed power source so that the amount of power required by the load gets closer to the amount of power supplied by the distributed power source in the case where service interruption information is provided in advance [The examiner notes that teaching of Kern is the case where service interruption information is NOT known in advance and therefore step one does not apply] the plurality of loads (74) being normally supplied with power from a power system (utility) (See Figure 3) and supplied with power from the distributed power source (20a) upon interruption of electrical service (See Figure 3 & Paragraphs 62-63).
- Connecting the plurality of loads with the distributed power source and staring to supply power from the distributed power source to the plurality of loads (See Paragraphs 62-63 & 66) [The examiner notes that power supply to the plurality of loads is started when the switch (63) is closed)].
- A third step of disconnecting the plurality of loads from the power system (utility)
 (See Paragraphs 62-63).
- A forth step of adjusting at least one of the power consumption of the plurality of loads and the power generation amount of the distributed power source so that the power consumption and the amount power required by the load is closer to the

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amount of power supplied by the distributed power source [The examiner notes this is taught by Kern and read on by load shedding] (See Paragraph 66).

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In regard to Claim 16

A power supply comprising:

- A first switch (61) (See Figure 3) for normally connecting a plurality of loads (74) [The examiner notes that Kern teaches load shedding and disconnecting portions of the load via circuit breakers thereby teaching a plurality of loads (See Paragraph 66)] with a power supply system at normal times and disconnecting them upon interruption of electrical service, the loads being normally supplied with power from the power system (Utility) at the normal times and supplied with power from a distributed power source (generator 20a) upon the interruption of the electrical service from the power system (See Figure 3 & Paragraphs 62-63).
- A second switch (44a) for connecting the loads with the distributed power source (20a) upon the interruption of the electrical service (See Figure 3 & Paragraphs 62-63).
- A first control unit (14) for adjusting the power consumption of the plurality of loads (See Paragraph 66).
- A second control unit (16) (See Paragraph 43) for adjusting the power generation amount of the distributed power source (20a).
- A command device (60) (See Paragraphs 49-50) for issuing a command signal to at least one of said first control unit for adjusting the power consumption and said

second control unit for adjusting the power consumption, before the interruption of the electrical service begins in the case where service interruption information is provided in advance [The examiner notes that the teaching of Kern are being used in the case where service interruption information is NOT known in advance] and issuing a command signal for turning on said second switch (44a) and then issuing a command signal for turning off said first switch (61) and issuing a command signal to at least one of said first control unit and said second control unit for adjusting either the load or the distributed power source in order to get the amount power required by the load closer to the amount of power supplied by the distributed power source (See Paragraph 66).

• Wherein the first control unit adjusts the load amounts of loads the power consumption of a load and a present load amount of each load in accordance with the command signal [The examiner notes that Kern teaches "only shedding such a portion of load 74 as necessary to allow the generators of power generation system 12 to provide adequate electrical power to the load.
Therefore, the control signal is adjusting the load based on the power drawn by a particular load and the present load amount of the load (See Paragraph 66)].

In regard to Claim 17

A method for supplying power upon interruption of electric service, the method comprising:

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A first step of connecting the plurality of loads with the distributed power source and staring to supply power from the distributed power source to the plurality of loads
 (See Paragraphs 62-63 & 66) [The examiner notes that power supply to the plurality of loads is started when the switch (63) is closed)]. The plurality of loads being normally supplied with power from a power system (utility) and supplied with power from the distributed power source (generator) upon interruption of electric service.

- A second step of adjusting at least one of the power consumption of the plurality of loads and the power generation amount of the distributed power source so that the power consumption and the amount power required by the load is closer to the amount of power supplied by the distributed power source [The examiner notes this is taught by Kern and read on by load shedding] (See Paragraph 66).
- Wherein the adjusting of power consumption consists of adjusting the amounts of power consumption of a load and a present load amount of each load [The examiner notes that Kern teaches "only shedding such a portion of load 74 as necessary to allow the generators of power generation system 12 to provide adequate electrical power to the load. Kern teaches load shedding which is the adjustment of power consumption is based on the power drawn by a particular load and the present load amount of the load (See Paragraph 66)].

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Cavallari whose telephone number is (571)272-8541. The examiner can normally be reached on Monday-Friday 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus can be reached on (571)272-2800 x36. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel Cavallari

December 18, 2006

CHAUN. NGUYEN
DRIMARY EXAMINER

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